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**MADURAI DIVISION-S
AND T**
**OFFICE OF DRM/S T, DRM
OFFICE**
MADURAI, 625016
Tamil Nadu, India

**Letter No: MADURAI DIVISION-S AND T / U-SG-02-2021-22-1 /
01342370040015**

Dated: 12/08/2021

**M/s CYRUS ELECTRONICS PRIVATE LIMITED-
LUCKNOW**
Cyrus House, B44/69
Sector-Q, Aliganj
Lucknow- 226024
Uttar Pradesh, India

Sub: Letter Of Acceptance

- Ref:**
1. Tender No. U-SG-02-2021-22-1 closing date 23-07-2021 11:00 for Provision of Integrated Emergency Response Management System (Video Surveillance System) at Stations Virudunagar, Kovilpatti, Rameswaram, Tenkasi Jn., Sengottai, Karaikkudi and Ramanathapuram in Madurai Division. Provision of Integrated Emergency Response Management System (Video Surveillance System) at Stations Kollam Jn., Nagercoil Jn., Kochuveli in Tiruvananthapuram Division and Tuticorin and Rajapalayam in Madurai Division. Provision of Integrated Emergency Response Management System (Video Surveillance System) at Stations Paramakudi, Sattur, Tirunelveli Jn and Dindigul Jn., in Madurai Division and Mayiladuturai, Thanjavur Jn., Puducherry, Nagappatinam in Tiruchirappalli Division. [At seven stations of Madurai Division: Karaikudi, Ramanathapuram, Sengottai, Tenkasi, Rajapalayam, Sattur and Paramakudi].
 2. Your bid ID **12641979** dated **23/07/2021 10:17**
 3. Your Negotiation bid IDs [**12692486** dated **03/08/2021 16:51**]

The Competent Authority has accepted your offered rates in connection with the subject work. The total cost of the work at the accepted rates works out to Rs. 31403422 (Rupees Three Crore Fourteen Lakh Three Thousand Four Hundred And Twenty-Two Rupees Only)

A sum of Rs.0 deposited as Earnest Money vide IREPS reference ID - has been retained towards initial Security Money for due and faithful fulfillment of the contract, and the balance Security Money will be recovered from the progressive bills @ 6 % of the bill amount till it reaches 5 % of the contract value in terms of clause 16(1) of Standard GCC July 2020.

You are requested to submit Performance Guarantee in the form as given in Clause 16(4) of Standard GCC July 2020 equivalent to 3 % of the contract value amounting to Rs. 942102.66 (Rupees Nine Lakh Forty-Two Thousand One Hundred And Two Rupees And Sixty-Six Paise Only) within 21 days from the date of issue of Letter of Acceptance, valid up to stipulated date of completion plus 60 days so that contract agreement can be executed. PG shall be submitted in the form of an irrevocable Bank Guarantee or Demand Draft or Deposit receipt with automatic renewal facility from any of the nationalized banks in favour of Sr.Divisional Finance Manager/Southern Railway/Madurai before signing the Agreement. (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21(Twenty one)days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (Twenty one)days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. Incase contract is terminated railway shall be entitled to forfeit Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work.

The entire work shall be completed within 6 month from the date of issue of Letter of Acceptance. Therefore you may please make arrangements to commence the work immediately. This letter of acceptance shall also be treated as work order for the purpose of

commencement of work. This letter of acceptance shall remain operative till the normal agreement is executed after which it will merge with the said agreement.

T&C: The rates quoted and accepted shall remain in force till the satisfactory completion of this contract. Having fulfilled the above the Tenderer whose tender is accepted shall be required to appear in person as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear and execute the contract agreement within seven days of notice from Railways that the Contract Agreement is ready. The Contract Agreement shall be entered into by Railway only after submission of valid Performance Guarantee by the Contractor. In case of failure of the contract at any stage, your contract will be terminated under Clause 62 of General Conditions of Contract and EMD/Performance Guarantee and Security Deposit will be forfeited.

GST: GST Acts & rules from time to time will be applicable as per the implementation of GST on Indian Railways and GST registration number to be obtained and submitted by the contractor. In case contractor is liable to be registered under GST Act, Railway shall pay to the contractor Gross amount of work executed duly deducting all other leviable taxes like I/Tax, labour cess, royalty etc. as applicable. Contractor shall be liable to pay GST amount to respective authority himself. Whereas, Railway shall deposit all other taxes deducted to concerned authority as is being done presently. The contractor on his letter head shall have to submit GST complaint invoice in the prescribed format. The successful Tenderer has to pass on necessary Input Tax credit to Railways wherever applicable. The GST Registration number assigned for Southern Railways to Tamil Nadu is 33AAAGM0289C1ZQ and Kerala is 32AAAGM0289C1ZS.

Income Tax: Income Tax will be deducted at source from the contract bills.

other conditions: The Contractor is bound to abide by the Tender Conditions of the Contract, special conditions of contract stipulated along with the tender document and GCC. Any other conditions not covered under the tender condition of the contract will be applicable as per the GCC.

Scope of work: Supply, Installation, Testing, Commissioning and integration of IP based CCTV Surveillance systems [Video Surveillance System (VSS)] at seven stations of Madurai Division namely Karaikkudi, Ramanathapuram, Sengottai, Tenkasi Jn., Rajapalayam, Sattur and Paramakudi with twelve calendar months comprehensive warranty/maintenance. The work envisages, Supply, Installation, Testing, Commissioning and integration of IP Cameras (Fixed, PTZ & 4K), Switches (Field, Aggregate, Core, L2 & L3), Servers (with VMS, Recording, AI Video Analytics & FRS softwares and Licenses as per requirements), Storage devices, Work stations, LFD screens, Earths and power/optical cabling as required. (Schedule of Material & Works) Supply & laying of HDPE duct, Conduit, GI pipe, DWC pipe & accessories required for laying of various cables. Supply & laying of STP cable, Power cable & OFC cable over GI Tray/wall/girder through conduit/HDPE duct/DWC pipe/GI pipe/Trenches etc. as per site requirement. Proper termination of these cables also needs to be done. Supply, Installation, Testing, Commissioning of UPS' along with AC supply distribution system, to provide backup of 60 minutes to all the network equipments, servers, work stations & other equipments installed at Stations/RPF posts/Central Command Center. Various patch cords, connecting cables like HDMI, RJ45, VGA etc. required for interconnectivity of all the devices of the CCTV system need to be provided by the contractor. All materials to be supplied in this work should be in accordance with RDSO specification No. RDSO/SPN/TC/65/2021 Rev.6.0 or latest amendments. Validity of Software & other licenses shall be for the entire warranty period. Modification or upgradation to hardware/software (firmware) unit to be provided free of cost minimum till the end of warranty period. Any other materials required to obtain the end objective should be supplied by the Tenderer. The work is to be executed as per the detailed schedules given for the work and as per the instructions of the Site incharge/Consignee.

Shramik Kalyan: The contractor must register in Shramikkalyan Portal through the link <http://www.shramikkalyan.indianrailways.gov.in> and update the details regarding the works and the labourers engaged in it within 15 days after receiving the LOA

ITC: The successful Tenderer has to pass on necessary Input Tax credit to Railways.

Rate restriction: The rates of all the items of Schedule B(Non SOR items) except NS48, NS49, NS50 and NS53 are restricted for future references.

Supervision: All the work shall be executed by the contractor in consultation and supervision of SSE/Tele nominated as work incharge.

Precaution & care: Adequate care is to be taken while executing the work without causing any damage to Railways assets.

Decision: The contractor shall rectify the defects as may be pointed out by concerned SSE/Tele and/or Asst. Divisional Signal & Telecommunication Engineer. In case of any dispute, the decision of Senior Divisional Signal & Telecommunication Engineer will be final and binding.

Guarantee: The contractor shall guarantee the satisfactory working for a period of 12 months from date of issue of the certificate of completion by the Engineer or any other earlier date subsequent to the completion of the works that may be fixed by the Engineer. The contractor shall abide by the Maintenance / Guarantee clause of the standard GCC July 2020.

Work Incharge: SSB/Tele/KRDI, SSB/Tele/MNM, SSB/Tele/ESI, SSB/Tele/VPT will be incharge for recording measurements and correspondences thereof.

Material collection: The contractor shall take delivery of the materials supplied by the Railways as per the tender conditions.

CAMC: The total cost of the work includes the CAMC cost of Rs.14,00,000/- (Rupees Fourteen lakhs only). The CAMC contract agreement shall be executed separately after successful completion of Warranty period; Security deposit shall be released to the contractor only after execution of Contract agreement for CAMC.

All Other terms and conditions, as stipulated in the tender documents shall be applicable.

RAMPRASATH R
DSTE SW MDU
Digitally Signed
[View Signature Details](#)

Awarded Quantities And Rates

Item Sno.	Item Desc	Item Code	Item Qty	Qty Unit	Unit Rate (Rs)	Escl. (%)	Advt.Value (Rs)	Bid Rate/ Unit Rate	Bid Amount (Rs)
Schedule A-SOR Items (Item Directory - SOR 2011 directory final-Ver-2)							283656.10	23.00 % Above	
1	Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.3 Mtrs. Laying of cables is not included in this schedule.	011010	1800	Metre	34.65	40.00	87318.00		348897.00
2	Excavation of trench to a depth of 1 Mtr. for track crossing of cables, laying of DWC/ RCC pipes with collar/coupling, refilling of trench by ramming and consolidating it as per the instructions of Railway representative at site. During excavation of trench it has to be ensured that the excavated soil does not mix with the ballast available. The depth of 1m trench shall be from the bottom of sleepers for track crossings. Laying of cables is not included in this schedule.(Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule).	011060	35	Metre	208.35	40.00	10209.15		
3	Excavation of trench to a depth of 1 Mtr. for road crossing of cables, laying of DWC/ RCC pipes with collar/ coupling, refilling of trench by ramming and consolidating it and resurfacing it to the original position. Laying of cables is not included in this schedule.(Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule).	011070	20	Metre	220.83	40.00	7583.24		
4	Provision of GI pipes-(50/100mm dia) for cable laying with offset at both ends and with couplings over girder bridges by fixing on suitable MS Clamps at an interval of 2 Mtrs. The ends of the pipes shall be closed with brick masonry work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. Supply of GI pipes with couplings and laying of cables is not included in this schedule.[MS angles, flats, bolts and nuts for manufacturing fixing clamps, bricks, river sand , cement and all other miscellaneous	011090	105	Metre	215.25	40.00	31641.75		

	required for the work shall be supplied by the Contractor).							
5	Laying of signaling/power/telecommunication cables as per cable plan in cable trenches, masonry ducts, RCC Pipes, DWC pipes, GI Pipes etc. (Supply of cables is not included in this schedule).	011110	1750 Metre	9.83	40.00	24083.50		
6	Digging of pit to a depth of 800mm of size 300mmX300mm, Casting of concrete foundation of size 300mmX300mmX300mm and Placing of RCC cable markers on top of the foundation and refilling the pit and consolidating it by ramming. The cable markers shall be provided at an interval of 20 Mtrs. within station limits and 50 Mtrs. outside station limits throughout the cable route, diversions and also at every track/road/crossing.	011190	70 Numbers	121.43	40.00	11900.14		
7	Refilling of cable trench 1m depth by 0.3m width throughout, with earth after laying of cables, and consolidating the trench by ramming and leveling.	011150	2050 Metre	8.33	40.00	23907.10		
8	Supply of Double walled corrugated pipe - 103.5mm inner dia & 120mm outer dia conforming to specification No. IS 14930(Part 2): 2001 with one coupler for every 6m of pipe as specified in Vol.II of the Tender document.	011210	55 Metre	263.20	40.00	20266.40		
9	Supply of RCC cable markers as per drawing No.CSTE/CN/OFC/1. The lettering on the cable marker shall be "SIG" / "TELE" / "OFC" as per the instructions of Railway representative at site.	011180	70 Numbers	166.29	40.00	16296.42		
10	Supply of GI pipes - 50mm dia -3.65mm thick as specified in Vol.II of the Tender document.	011220	105 Metre	343.20	40.00	50450.40		
Schedule Totals							348897.00	
Schedule B-Non-SOR Items (Item Directory - Not Applicable)						23981700.88		
1	Supply of Full HD Bullet Type IP Colour camera as per RDSO spec. No:RDSO/SPN/TC/65/2021 Rev.6.0 or latest (Inspection by RDSO)	NS1	119 Numbers	11182.64	At Par	1330734.16	17700.00 Rs/Unit	2106300.00
2	Installation, Testing & Commissioning of Full HD Bullet Type IP Colour camera along with, Mount. All the accessories and fixing materials including mount required for this installation are to be supplied by contractor within the same cost.	NS2	119 Numbers	177.77	At Par	21154.63	120.00 Rs/Unit	14280.00
3	Supply of Full HD P/T/Z (Pan/Tilt/Zoom) IP Colour Camera as per RDSO spec.No: RDSO/SPN/TC/65/2021 Rev.6.0 or latest (Inspection by RDSO).	NS3	44 Numbers	35977.64	At Par	1583016.16	47200.00 Rs/Unit	2076800.00
4	Installation, Testing & Commissioning of Full HD P/T/Z (Pan/Tilt/Zoom) IP Colour Camera with ceiling mounting kit. All the accessories and fixing materials required for this installation are to be supplied by contractor within the same cost.	NS4	44 Numbers	571.88	At Par	25162.72	250.00 Rs/Unit	11000.00
5	Supply of 4K UHD Bullet Type IP Colour camera as per RDSO spec. No: RDSO/SPN/TC/ 65/2021 Rev.6.0 or latest (Inspection by RDSO).	NS5	15 Numbers	24358.76	At Par	365381.40	41300.00 Rs/Unit	619500.00
6	Installation, Testing & Commissioning of 4K UHD Bullet Type IP Colour camera along with Mount. All the accessories and fixing materials including mount required for this installation are to be supplied by contractor within the same cost.	NS6	15 Numbers	387.11	At Par	5806.65	120.00 Rs/Unit	1800.00
7	Supply, Installation, Testing and commissioning of Full HD Fixed dome type IP colour camera as per	NS7	13 Numbers	17464.00	At Par	227032.00	17700.00 Rs/Unit	230100.00

	RDSO Spec No. RDSO/SPN/TC/65/2021 Rev 6.0 or latest along with housing and mount and all accessories required for installation are to be supplied by contractor within the same cost. (Inspection by RDSO)						
8	Supply of Fully functional multipurpose Digital keyboard (Joystick) complete with all accessories compatible with PTZ camera as per RDSO spec. No: RDSO/SPN/TC/65/2021 Rev.6.0 or latest (Inspection by RDSO).	NSR	5 Numbers	11761.00 At Par	58805.00	12500.00 Rs/Unit	62500.00
9	Installation, Testing & Commissioning of Digital Keyboard (Joystick)	NS9	5 Numbers	186.90 At Par	934.50	120.00 Rs/Unit	600.00
10	Supply of Server Hardware for Video Management & Recording and all other required accessories to make the system operational, as per RDSO Specification RDSO/SPN/TC/65/ 2021Rev.6.0 with latest amendment and refer technical specification (Inspection by RDSO)	NS11	5 Numbers	266897.40 At Par	1334487.00	331875.00 Rs/Unit	1659375.00
11	Installation, Testing & Commissioning of Video Management & recording Server with required accessories as per RDSO Specification RDSO/SPN/TC/65/2021 Rev. 6.0 or latest amendment and refer technical specification (Inspection by RDSO)	NS11	5 Numbers	5337.95 At Par	26689.75	1200.00 Rs/Unit	6000.00
12	Supply, Installation, Testing & Commissioning of Video Management Software with License as per RDSO Specification RDSO/SPN/TC/65/2021 Rev 6.0 or latest amendment(Per camera Licence means Video Management (Viewing) at multiple locations such as Station, RPF Post & Server room by same license) and refer technical specification (Inspection by RDSO)	NS12	175 Numbers	891.18 At Par	155956.50	2850.00 Rs/Unit	498750.00
13	Supply, Installation, Testing & Commissioning of Video Recording Software with License as per RDSO Specification RDSO/SPN/TC/65/ 2021 Rev 6.0 or latest amendment and refer chapter technical spec for VSS (Per camera Licence means Video Recording at multiple locations such as Station, RPF Post & Server room by same license) and refer technical specification (Inspection by RDSO)	NS13	175 Numbers	534.10 At Par	93467.50	2850.00 Rs/Unit	498750.00
14	Supply of Server Hardware for Video Analytics and all other required accessories to make the system operational, as per RDSO Specification RDSO/SPN/TC/65/2021. Rev 6.0 or latest amendment and refer technical specification (Inspection by RDSO)	NS14	5 Numbers	266897.40 At Par	1334487.00	331875.00 Rs/Unit	1659375.00
15	Installation, Testing & Commissioning of Server for Video Analytics with required accessories as per RDSO Specification RDSO/SPN/TC/65/ 2021. Rev 6.0 or latest amendment and refer technical specification	NS15	5 Numbers	5337.95 At Par	26689.75	1200.00 Rs/Unit	6000.00
16	Supply, Installation, Testing & Commissioning of Video Analytics Software with License as per RDSO Specification RDSO/SPN/TC/65/2021 Rev. 6.0 or latest amendment and refer chapter technical spec for VSS (Per camera License means Video analytic at multiple locations such as Station, RPF Post & Server room by same license) and refer technical specification (Inspection by RDSO)	NS16	56 Numbers	8540.72 At Par	478280.32	5605.00 Rs/Unit	313880.00
17	Supply of Server Hardware for Face recognition and all other Required accessories to make the	NS17	5 Numbers	266897.40 At Par	1334487.00	427750.00 Rs/Unit	2138750.00

	System operational, as per RDSO Specification RDSO/SPN/TC/65/2021 Rev.6.0 with latest amendment and refer technical specification (Inspection by RDSO)						
18	Installation, Testing & Commissioning of Server for Face recognition with required accessories as per RDSO Specification RDSO/SPN/TC/65/2021 Rev.6.0 or latest amendment and refer technical specification	NS18	5 Numbers	5337.95 At Par	26689.75	1200.00 Rs/Unit	6000.00
19	Supply, Installation, Testing & Commissioning of Face Recognition Software with License as per RDSO Specification RDSO/SPN/TC/65/2021 Rev. 6.0 or latest amendment and refer chapter technical spec for VSS (Per camera License means FRS at RPF Post. By same license, Face Recognition can be possible at multiple locations such as Station & Server room) and refer technical specification (Inspection by RDSO)	NS19	52 Numbers	33266.80 At Par	1729873.60	41300.00 Rs/Unit	2147600.00
20	Supply of Full HD Large Format Display Monitor(55 inch) with HDMI and DVI ports complete with all accessories and HDMI cables, remote controller as per RDSO spec. No: RDSO/SPN/TC/65 / 2021 Rev.6.0 or latest and refer technical specification (Inspection by RDSO).	NS20	14 Numbers	53789.00 At Par	753046.00	110000.00 Rs/Unit	1540000.00
21	Installation, Testing & Commissioning of Full HD Large Format Display Monitor (55 inch). All the accessories and fixing materials required for this installation are to be supplied by contractor within the same cost.	NS21	14 Numbers	854.89 At Par	11968.46	1200.00 Rs/Unit	16800.00
22	Supply of PC Workstation for Viewing cameras in multi screen mode, Monitoring and System management and 4K UHD LED Monitor of 24 inch size including all required licensed softwares (like OS, MS Office, Anti-virus-total 3 years security), multifunction device for documentation , accommodate PC workstation & monitor with all accessories, spike buster(minimum 5 nos. 6A points with fuse), 500VA UPS , Mounting Rack and other required materials as per RDSO spec. No: RDSO/SPN/TC/65/2021 Rev.6.0 or latest and refer technical specification (Inspection by RDSO)	NS22	6 Numbers	222365.36 At Par	1334192.16	218300.00 Rs/Unit	1309800.00
23	Installation, Testing & Commissioning of PC Workstation with all accessories vide item No.22 of Sch-B	NS23	6 Numbers	3534.97 At Par	21204.42	2000.00 Rs/Unit	12000.00
24	Supply of 10 KVA UPS at least 1 hour battery back up in full load condition complete with all accessories. Make: NUMERIC/ APC / MICROTEK or similar. This also includes supply of one battery rack and one set (for input and output) compatible MCBs complete with cover & fixing materials. Make: Havells, Anchor or similar. (Inspection by RITES)	NS24	7 Numbers	144801.28 At Par	1013608.96	175000.00 Rs/Unit	1225000.00
25	Installation, Testing & Commissioning of 10 KVA UPS vide item No-24 of Sch-B. All the accessories required for this installation is to be supplied by contractor within the same cost.	NS25	7 Numbers	2301.39 At Par	16109.73	6000.00 Rs/Unit	42000.00
26	Supply, Installation, Testing & Commissioning of L3 Core Switch as per RDSO Specification RDSO/SPN/TC/65 / 2019 Rev 5.0 with latest amendment.(Inspection by RDSO)	NS26	7 Numbers	117431.86 At Par	822044.02	184375.00 Rs/Unit	1290625.00
27	Supply of Layer-2 Switch (minimum 8+2 port manageable) with 8 nos. 10/100/1000 Mbps	NS27	82 Numbers	14510.68 At Par	1189875.76	16200.00 Rs/Unit	1328400.00

	Ethernet port, PoE and 2 nos. 1000 BaseX SM SFP port with optical modules complete with all accessories etc. as per RDSO Spec. No. RDSO/SPN/TC/65/2021, Rev 6.0 or latest and refer technical specification (Inspection by RDSO)							
28	Installation, Testing & Commissioning of Layer-2 PoE Switch (minimum 8+2 port manageable) with 8 nos. 10/100/1000 Mbps Ethernet port, PoE and 2 nos. 1000 BaseX SM SFP port with optical modules .All the accessories and fixing materials required for this installation are to be supplied by contractor within the same cost.	NS28	82 Numbers	230.65 At Par	18913.30	120.00 Rs/Unit	9840.00	
29	Supply, Installation, Testing & Commissioning of Aggregate Switch as per RDSO Specification RDSO/SPN/TC/65/2021 Rev 6.0 or latest amendment and refer technical specification (Inspection by RDSO)	NS29	10 Numbers	103200.33 At Par	1032003.30	81125.00 Rs/Unit	811250.00	
30	Supply of Single mode Single Fibre 10G SFP module compatible to Layer 3 core switch vide item No: 26 of Sch B. (Inspection by RDSO)	NS30	68 Numbers	5774.48 At Par	392664.64	5000.00 Rs/Unit	340000.00	
31	Installation, Testing & Commissioning of Single mode Single Fibre 10G SFP module compatible to Layer 3 core switch vide item No: 31 of Sch B	NS31	68 Numbers	91.80 At Par	6242.40	90.00 Rs/Unit	6120.00	
32	Supply of Single mode 1G SFP module compatible to Layer 2 switch vide item No: 28 of Sch B. (Inspection by RDSO)	NS32	406 Numbers	2881.16 At Par	1169750.96	1180.00 Rs/Unit	479080.00	
33	Installation, Testing & Commissioning of Single mode 1G SFP module compatible to Layer 2 switch vide item No: 33 of Sch B	NS33	406 Numbers	45.67 At Par	18542.02	45.00 Rs/Unit	18270.00	
34	Supply to the Consignee store, Transportation to the site of Computer Table (1200 x 600x750) : 1 No. with block board & Sunmica top and Chair steel cushioned 2 Nos (Godrej make or similar) with all accessories and fixing materials to the Consignee store, and Transportation to the site. Note: One set includes one table and two chairs. (Inspection by Consignee)	NS34	7 Numbers	13439.08 At Par	94073.56	25000.00 Rs/Unit	175000.00	
35	Supply, Installation, Testing and Commissioning of Storage System for 30 days(32TB) recording at station/RPF/GRP Thana/Post along with all accessories required for installation purposes as per RDSO Specification No. RDSO/SPN/TC/65/2021 rev 6.0 (Inspection by RDSO).	NS35	7 Set	173696.00 At Par	1215872.00	339250.00 Rs/Unit	2374750.00	
36	Supply and installation of 19" 36/42 U size floor mountable covered network racks with complete fixing accessories. Front door of transparent type with lock and key arrangement. Rack to be fitted with (1) trays - 1Nos (2) G15A/SA SURGE protected vertical power socket (minimum2 nos), (3) cable manager / organiser strip- 2Nos (4) cooling exhaust fans (2Nos)in one tray of 230V AC working. NETRACK/ RITTAL/ SCHNEIDER/ VERO PRESIDENT/ APW makes (Inspection by Consignee)	NS36	7 Numbers	18696.96 At Par	130878.72	32000.00 Rs/Unit	224000.00	
37	Supply and Installation of surface Wall mountable type 19 inch 12U network Rack with front glass door with lock and rack fixing multipoint AC Power trip & all accessories (Power extension board with one set of MCB, exhaust fan, cable manager)similar to make HCL, DLINK, IBALE or better (Inspection by Consignee).	NS37	60 Numbers	5375.53 At Par	322531.80	6000.00 Rs/Unit	360000.00	
38		NS38	3520 Metre	156.00 At Par	549120.00	180.00 Rs/Unit	633600.00	

	Cutting of trench across/on the platform for a depth of 10cm with marble cutting machine and refilling with plaster.							
39	Supply and termination of LRU boxes SC Type Rack mounting type 19" size for 12 Fibre with FC-PC,SC-PC connector loaded end termination/splicing of OFC cable as per Rly requirement and fixing in Rack / wall as directed by Rly Engineer (OTDR readings to be taken and to be submitted) (Inspection by RTLS)	NS39	93 Numbers	5800.00 At Par	539400.00	4425.00 Rs/Unit	411525.00	
40	Supply and laying of permanently solid lubricated HDPE pipes (33 mm inner Dia, 40mm outer dia) as per TEC GR no.G.CDS-08/02 Nov 2004 or latest with accessories (including slip fit/push fit type couplers) per KM, to suite the above HDPE pipe) per KM, HDPE duct coil length shall be in 1000Mtrs only with tolerance as per TEC spec including transportation of HDPE duct to site, Specification NO.RDSO/SPN /TC/45/2013 with revision 2 or latest(OEM test report & TEC Spec certificate to be produced) (HDPE pipe- Consignee inspection)	NS40	1736 Metre	64.50 At Par	111972.00	75.00 Rs/Unit	130200.00	
41	Blowing of OFC in permanently solid lubricated HDPE Telecom pipe (33mm inner dia). This work includes necessary duct integrity test for solid lubricated HDPE pipe	NS41	1825 Metre	9.00 At Par	16425.00	20.00 Rs/Unit	36500.00	
42	Excavation of OFC cable joint pit and provision of RCC joint/loop chambers of 1.2m dia, 60cm height and 50mm thickness with 2 pieces top and bottom cover with holes for drainages (Reinforcement as per DRG No.OFC/2009/17). This includes filling up of sand complete in the joint chamber after cable laying, back filling and consolidation of soil around the chamber, disposal of excess soil as per plan or as advised by railway engineer at site as well as transportation of joint chamber to site at every KM in the section (Consignee Inspection)	NS42	4 Numbers	4500.00 At Par	18000.00	7000.00 Rs/Unit	28000.00	
43	Supply and installation of joint closure for armoured optical fibre cable conforming to RDSO spec No. SPN/TC/68/2014 Rev1.0 with latest amendment and splicing of optical fibre cable (24F). Testing of fibres for 1310 & 1550 nm shall be carried out at every joint location as instructed by Railway engineer in charge at site(Consignee Inspection)	NS43	4 Numbers	10000.00 At Par	40000.00	11500.00 Rs/Unit	46000.00	
44	Supply and installation of G.I pipe (SOMM dia -3.65mm thick) for laying of cable to the PF shelter from ground level and concreting at base level as directed by Railway Engineer (Consignee Inspection)	NS44	194 Metre	525.15 At Par	101879.10	295.00 Rs/Unit	57230.00	
45	Supply and erection of 15 feet GI pipe of 4" dia of medium quality ISI No: 1230 (Part1) 1990. Having iron base plate 10mm thick 30cm x 30cm welded at the bottom of pipe with 4 supports of iron bars of sizes 10mm dia. The 3 feet pipe shall be buried in the ground and 12 feet shall be above the ground. The work includes digging of pit on platform, laying of cable In between poles in suitable underground GI pipes, erection of pole and filling the pit with 1:3:4 cement, concrete and sand. Final plastering should be done on the surface. The iron bracket on the top of the pole shall be provided to fix the CCTV camera and junction	NS45	160 Metre	3192.12 At Par	510739.20	295.00 Rs/Unit	47200.00	

	box. The work includes supply of all the material required in this item. (GI pipe Inspection by RITES)						
46	Supply of 3 Mtrs length SC/SC, SC-LC/LC/FC/SC/FC/FC (as per Site requirement) connectors OFC patch chord (Inspection by Consignee)	NS46	309 Numbers	130.00 At Par	40170.00	350.00 Rs/Unit	148150.00
47	Supply and provision of special earth as per RDSO Speci. No. RDSO/SPN/ 1977/2008 or latest and as per typical installation Drg. No. RDO/RDSO/ E&B/ 001 or latest. (Note - Newly installed earth shall be connected with existing earth as per the direction of Railway representative at site. The miscellaneous materials/ work including conductors, exothermic welding etc. shall be supplied by the contractor). (Inspection by RDSO)	NS47	10 Numbers	25541.00 At Par	255410.00	35000.00 Rs/Unit	350000.00
48	Supply and fixing of wall mountable 24 F Nos. fibre management system (FMS) Conforming to RDSO /SPN/TC-37/2000 (Rev-3) Amdt-1 or latest similar to PPG make or better, suitable for splicing and front patching for 24F cable with all accessories and terminating the optical fibre cable with splicing and front patching in FMS in the equipment room (OFC pigtail patch chords of suitable length and all other materials required for splicing are to be supplied by contractor) (Inspection by RITES).	NS48	12 Numbers	12600.00 At Par	144000.00	12000.00 Rs/Unit	144000.00
49	Training - RPF (5 Persons)	NS49	8 Lumpsum	200.00 At Par	1600.00	200.00 Rs/Unit	1600.00
50	Training - SAT (5 Persons)	NS50	8 Lumpsum	200.00 At Par	1600.00	200.00 Rs/Unit	1600.00
51	Supply of Surge Protection Devices, Make DEHN or Similar Class B (10/350 Micro Sec) & Class C (8/20 Micro sec) type metal encapsulated spark gap for fire safe & fire proof operation based, single phase coordinated. It should have Mechanical failure indicator on L-N & N-E, pluggable device, as per IEC 61643 test standard. (Inspection by Consignee)	NS51	9 Numbers	11497.60 At Par	57038.00	11500.00 Rs/Unit	57500.00
52	Installation, Testing &Commissioning of Surge Protection, Devices, Class B (10/350 Micro Sec) & Class C (8/20 Micro sec) vide item No.53 of Sch-B. All the accessories and fixing materials required for this installation are to be supplied by contractor within the same cost.	NS52	5 Numbers	181.31 At Par	906.55	700.00 Rs/Unit	3500.00
53	Preparation of drawing mentioning the location of cameras wiring diagrams of UTP, power cable, OFC cable etc., OTDR reports of OFC cable earth resistance test reports. (Technical details of servers, switches, work stations, media converters, storages	NS53	2 Station	25000.00 At Par	175000.00	25000.00 Rs/Unit	175000.00
54	Supply and installation of 5KVA online UPS(Single Phase) (APC/Numeric/ TATA LIBERT/ Emerson Make) with one Hour backup time with full load along with suitable AH capacity SMF batteries(Exide/Amararaja Make) with battery stand/rack/trolley. (Inspection by RITES)	NS54	1 Numbers	100529.18 At Par	100529.18	145000.00 Rs/Unit	145000.00
55	Supply and fixing of Standard Rack 19" size, 6U size height wall mounting type front glass door with lock and 2 key and rack fixing multi point AC Power strip, cable organiser with wall fixing screws. (Inspection by Consignee)	NS55	22 Numbers	3628.00 At Par	79816.00	5600.00 Rs/Unit	121000.00
56	Supply of STP CAT6 cable (Inspection by Consignee)	NS56	2930 Metre	30.00 At Par	87900.00	40.00 Rs/Unit	117200.00
57	Supply of 12 Fiber unarmoured single mode Optic fiber cable	NS57	2300 Metre	16.76 At Par	38548.00	35.00 Rs/Unit	85500.00

	Similar to Finolex/AMP/Molex/Starlite makes. (Inspection by Consignee)						
58	Supply of 3 core 2.5 sq mm, multi strand copper conductor, PVC insulated armoured power cable, conforming to IS: 1554 Part-1. (Inspection by Consignee)	NS58	2800 Metre	65.15 At Par	182420.00	110.00 Rs/Unit	308000.00
59	Laying of UTP/OF Cables/power cables in 1" PVC conduit (ISI marked)/ case capping and clamping on Wall or rooftops/PF shelters with suitable clamping and other accessories to be supplied by the contractor)	NS59	30675 Metre	4.22 At Par	129448.50	10.00 Rs/Unit	306750.00
60	Supply and Fixing of PVC conduit pipe of 25mm dia conforming to IS:9537 with suitable couplers and bends as instructed by Railway representative at site. (Inspection by RITES)	NS60	30675 Metre	33.81 At Par	1037121.75	21.00 Rs/Unit	644175.00
61	Supply of 24 F armoured OFC cable. (Inspection by RDSO)	NS61	1000 Metre	40.00 At Par	40000.00	80.00 Rs/Unit	80000.00
Schedule Totals							29654525.00
Schedule C-AMC (Item Directory - Not Applicable)					0.40		
1	AMC for entire VSS of KKDI station including server/work station/LFD monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the first year. (inclusive of 18% GST)	KKDI1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
2	AMC for entire VSS of KKDI station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the second year. (inclusive of 18% GST)	KKDI2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
3	AMC for entire VSS of KKDI station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the third year. (inclusive of 18% GST)	KKDI3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
4	AMC for entire VSS of KKDI station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fourth year. (inclusive of 18% GST)	KKDI4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
5	AMC for entire VSS of KKDI station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fifth year. (inclusive of 18% GST)	KKDI5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
6	AMC for entire VSS of RMD station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and	RMD1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00

	Earthing for the first year, (inclusive of 18% GST) AMC for entire VSS of RMD station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the second year, (inclusive of 18% GST)	RMD2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
7	AMC for entire VSS of RMD station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the third year, (inclusive of 18% GST)	RMD3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
8	AMC for entire VSS of RMD station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fourth year, (inclusive of 18% GST)	RMD4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
9	AMC for entire VSS of RMD station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fifth year, (inclusive of 18% GST)	RMD5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
10	AMC for entire VSS of TSI station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the first year (inclusive of 18% GST)	TSI1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
11	AMC for entire VSS of TSI station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the second year (inclusive of 18% GST)	TSI2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
12	AMC for entire VSS of TSI station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the third year (inclusive of 18% GST)	TSI3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
13	AMC for entire VSS of TSI station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fourth year (inclusive of 18% GST)	TSI4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
14	AMC for entire VSS of TSI station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fifth year (inclusive of 18% GST)	TSI5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
15	AMC for entire VSS of SCT station including server/work station/LFD Monitor hardware, cameras, external storage, switches, Server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and	SCT1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00

17	Earthing for the first year. (inclusive of 18% GST) AMC for entire VSS of SCT station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the second year. (inclusive of 18% GST)	SCT2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
18	AMC for entire VSS of SCT station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the third year. (inclusive of 18% GST)	SCT3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
19	AMC for entire VSS of SCT station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fourth year. (inclusive of 18% GST)	SCT4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
20	AMC for entire VSS of SCT station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fifth year. (inclusive of 18% GST)	SCT5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
21	AMC for entire VSS of RJPM station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the first year. (inclusive of 18% GST)	RJPM1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
22	AMC for entire VSS of RJPM station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the second year (inclusive of 18% GST)	RJPM2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
23	AMC for entire VSS of RJPM station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the third year (inclusive of 18% GST)	RJPM3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
24	AMC for entire VSS of RJPM station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fourth year (inclusive of 18% GST)	RJPM4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00

25	AMC for entire VSS of R1PM station including server/work station/LFD Monitor hardware, cameras, external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring, SPDs and Earthing for the fifth year (inclusive of 18% GST)	R1PM5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
26	AMC for entire VSS of PMK station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the first year. (inclusive of 18% GST)	PMK1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
27	AMC for entire VSS of PMK station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the second year. (inclusive of 18% GST)	PMK2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
28	AMC for entire VSS of PMK station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the third year. (inclusive of 18% GST)	PMK3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
29	AMC for entire VSS of PMK station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the fourth year. (inclusive of 18% GST)	PMK4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
30	AMC for entire VSS of PMK station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the fifth year. (inclusive of 18% GST)	PMK5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
31	AMC for entire VSS of MNM station including server/work station/LFD Monitor hardware, , external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring and Earthing for the First year. (inclusive of 18% GST)	MNM1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
32	AMC for entire VSS of MNM station including server/work station/LFD Monitor hardware, , external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring and Earthing for the second year. (inclusive of 18% GST)	MNM2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
33	AMC for entire VSS of MNM station including server/work station/LFD Monitor hardware, , external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring and Earthing for the third year. (inclusive of 18% GST)	MNM3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00
34	AMC for entire VSS of MNM station including server/work station/LFD Monitor hardware, , external storage, switches, server/client software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring and Earthing for the fourth year. (inclusive of 18% GST)	MNM4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00
35	AMC for entire VSS of MNM station including server/work station/LFD Monitor hardware, , external storage, switches, server/client	MNM5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00

	Software updates, new version, security patches and all the associated peripherals including UPS, Batteries, Power/Optical wiring and Earthing for the fifth year. (inclusive of 18% GST)							
36	AMC for entire VSS of SRT station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the first year. (inclusive of 18% GST)	SRT1STYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00	
37	AMC for entire VSS of SRT station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the second year. (inclusive of 18% GST)	SRT2NDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00	
38	AMC for entire VSS of SRT station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the third year. (inclusive of 18% GST)	SRT3RDYR	1 Station	0.01 At Par	0.01	25000.00 Rs/Unit	25000.00	
39	AMC for entire VSS of SRT station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the fourth year. (inclusive of 18% GST)	SRT4THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00	
40	AMC for entire VSS of SRT station including, cameras, switches, and all the associated peripherals including UPS, Batteries, Power/Optical wiring, and Earthing for the fifth year. (inclusive of 18% GST)	SRT5THYR	1 Station	0.01 At Par	0.01	50000.00 Rs/Unit	50000.00	
Schedule Totals						1400000.00		
Total Value						24265357.38	31403422.00	
Rebate on Total Value (%)						0.00		
Net Bid Value						31403422.00		

Item Breakup

No break up item added